## WHAT IS CLAIMED IS:

- 1. A method of quantizing a bin value of a color histogram, the method comprising:
  - (a) dividing a bin value into N+1 regions using N threshold values; and
- (b) dividing and quantizing the divided regions uniformly and more finely with respect to each region that is nearer to zero.
- 2. The method according to claim 1, wherein a first threshold value of the N threshold values is zero or almost zero.
- 3. The method according to claim 1, wherein a first region of the N+1 regions is regarded as one value.
- 4. The method according to claim 1, wherein at least one of the N+1 regions is represented by a single value.
- 5. The method according to claim 1, wherein the N+1 regions are non-uniform regions.
- 6. The method according to claim 1, wherein the number N of the threshold values is 5 and the N threshold values are set as follows:
  - a first threshold value (th1) is 0.000000001;

- a second threshold value (th2) is 0.037;
- a third threshold value (th3) is 0.08;
- a fourth threshold value (th4) is 0.195; and
- a fifth threshold value (th5) is 0.32.
- 7. The method according to claim 6, wherein the number N of the threshold values is 5;
  - a first region (≤ th1) is regarded as one value;
  - a second region (> th1 and  $\leq$  th2) is uniformly divided into 25 levels;
  - a third region (> th2 and  $\leq$  th3) is uniformly divided into 20 levels;
  - a fourth region (> th3 and  $\leq$  th4) is uniformly divided into 35 levels;
  - a fifth region (> th4 and ≤ th5) is uniformly divided into 35 levels; and
- a sixth region (> th5) is uniformly divided into 140 levels, and wherein the bin value is represented using a total of 256 levels.
- 8. The method according to claim 1, wherein the number N of the threshold values is 5;
  - a first region ( $\leq$  th1) is regarded as one value;
  - a second region (> th1 and  $\leq$  th2) is uniformly divided into 25 levels;
  - a third region (> th2 and  $\leq$  th3) is uniformly divided into 20 levels;
  - a fourth region (> th3 and ≤ th4) is uniformly divided into 35 levels;

- a fifth region (> th4 and ≤ th5) is uniformly divided into 35 levels; and
- a sixth region (> th5) is uniformly divided into 140 levels, wherein the bin value is represented using a total of 256 levels, where th1, th2, th3, th4 and th5 are the threshold values and th1  $\leq$  th2  $\leq$  th3  $\leq$  th4  $\leq$  th5.
- 9. A method of quantizing a bin value of a color histogram, the method comprising:
- (a) separating a bin value of a histogram of video or image data into N+1 non-uniform regions using N threshold values; and
- (b) representing a bin value within each of the regions uniformly, wherein the respective uniform bin value within said each region is smaller as the region is nearer to zero.
- 10. The method according to claim 9, wherein a first region that is nearest to zero is represented using a single bin value within the first region.
- 11. The method according to claim 9, wherein remaining regions other than a first region that is nearest to zero are uniformly divided by prescribed corresponding integers to obtain the bit value within said each of the regions.
- 12. The method of claim 11, wherein at least two of the prescribed corresponding integers are not equal in value.

- 13. The method according to claim 9, wherein the regions are separated by the N nonuniform threshold values (th<sub>n</sub>), wherein widths of regions that are closer to zero are narrower than those of regions that are farther away from zero, and wherein (th<sub>n+1</sub> th<sub>n</sub> < th<sub>n+2</sub> th<sub>n+1</sub> ( $1 \le n \le N$ )).
- 14. The method according to claim 9, wherein the regions are divided nonuniformly by the N threshold values and each of the nonuniformly divided regions is divided uniformly, and the bin values within the regions are represented with eight bits.
  - 15. The method of claim 14, wherein the eight bits represent 256 values.
- 16. The method of claim 9, wherein the bin values within the regions are quantized.